







Today we will discuss the following

Tree Location

Species Selection

Tree Form

Tree Planting

Tree Maintenance

Tree Pruning



1st Key to Strength

Location, Location, Location







2nd Key to Strength

Species Selection

What is the purpose of the tree??

- What is the trees future size, shape and overall appearance.
- Does it have fruit or seeds that are desirable or not?
- Does it like dry or wet locations?
- Faster growing trees are usually a weak wooded tree. Trees like silver maple, cottonwood, and poplar.

Tree Form

- Purchase good quality stock
- Stock that has a strong central leader
- Stock that has evenly space branches
- No major trunk wounds







3rd key to Strength

Plant correctly



Welcome to Tree Planting 101!

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University of Minnesota Extension Service; Forest Resources Extension http://www.cnr.umn.edu/FR/extension/

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Plant
the tree
no
deeper
than the
top of
rootball



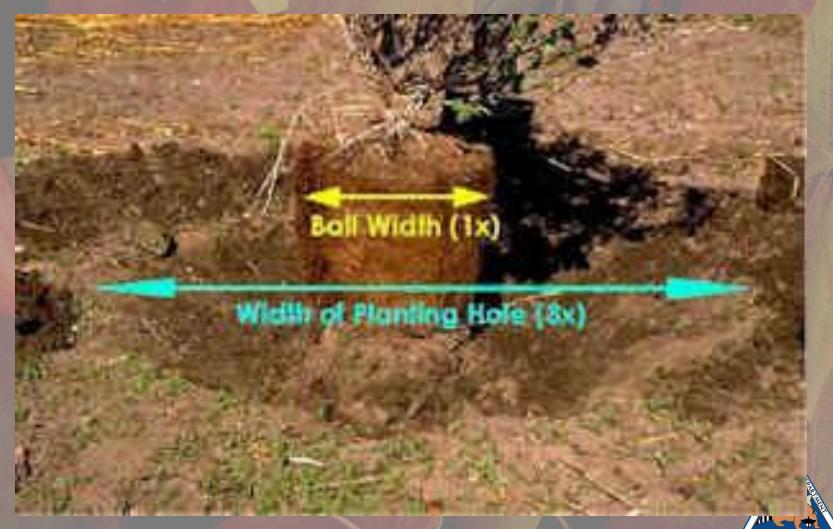






The planting hole should be 3 times the diameter of the soil ball.

It is important to loosen as much soil as possible to aid in root expansion.





Note how the soil is disturbed deeper than the base of the soil ball everywhere except directly under the ball itself.

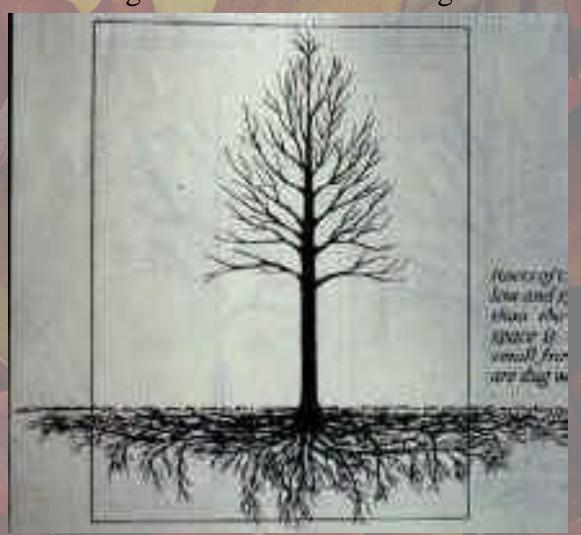


Loosen sides of planting hole

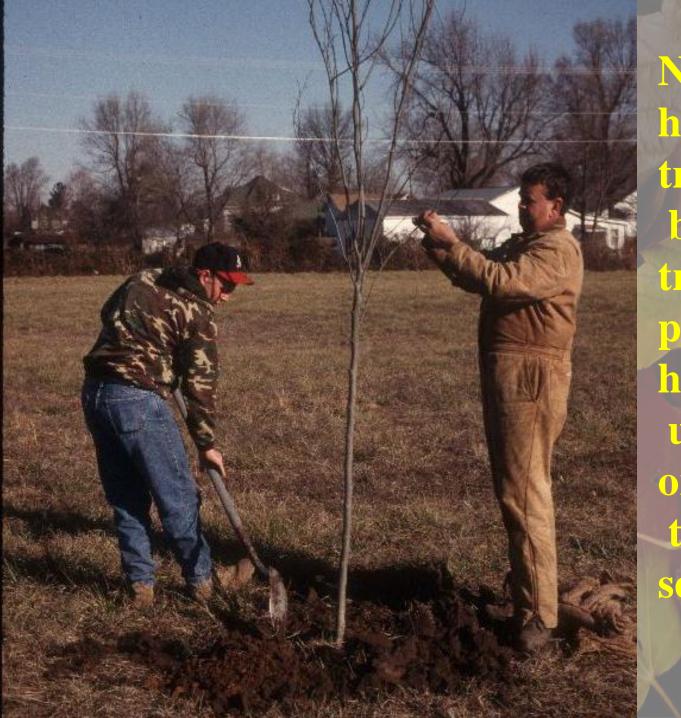




When planting a tree the hole has to be wide enough to allow for root elongation.







Never handle the tree by the trunk when placing in hole always use the ties or basket to lift and set





Cut the wire basket and remove



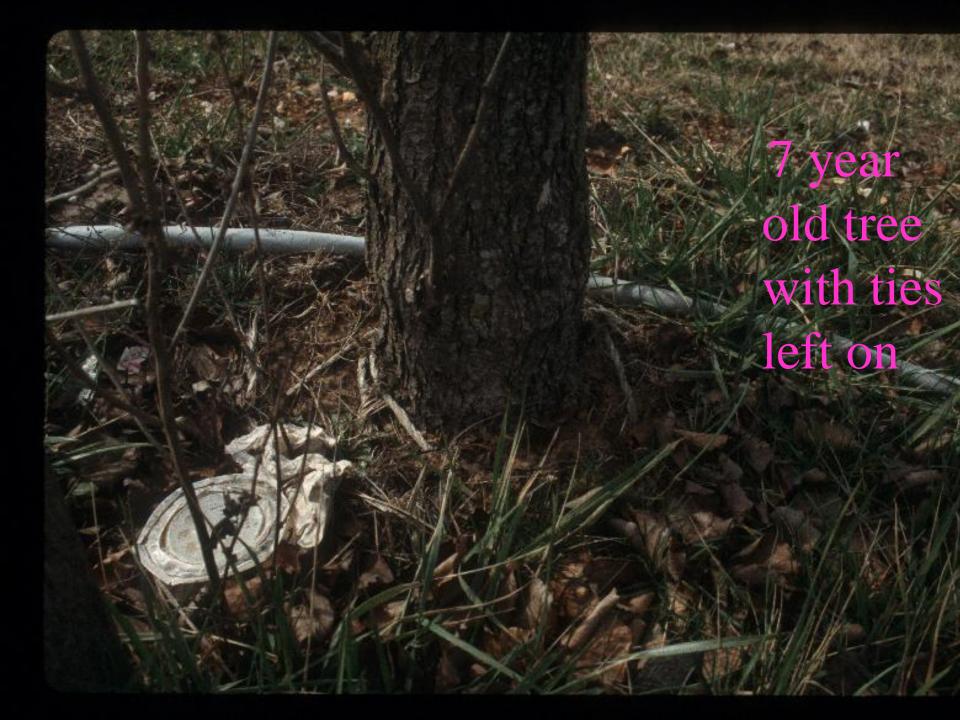
















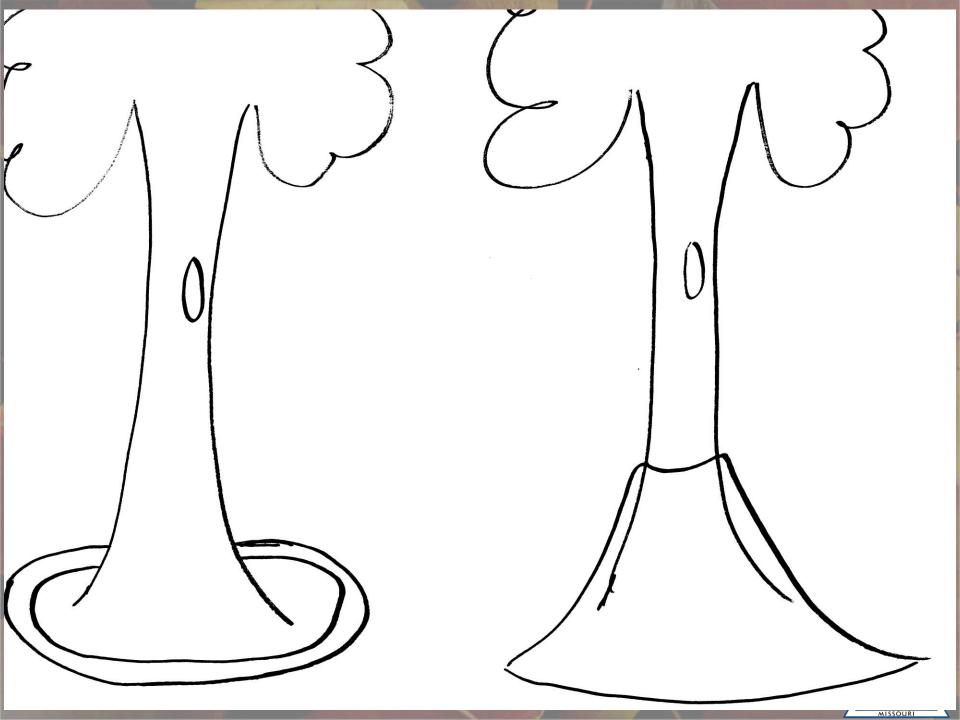
Good Mulch, Bad Mulch























4th Key to Strength

Tree Maintenance

Water properly
Water slow and
deep
About 1 inch a
week during
growing
season

Freshen mulch yearly
Prune broken branches anytime







5th Key to Strength

Proper Pruning

Rules

- Crossing or Broken branches
- 1/4 Rule

Pruning Cuts

- Cut at sharp 45 degree angle
- Cut to next bud opportunity and the 1/3 diameter rule



When to Prune

Fall

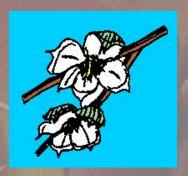


Summer





Spring





- Trees Grow over wounds
 - Unlike people, trees
 cannot fill in wounds



• Trees compartmentalize wounds



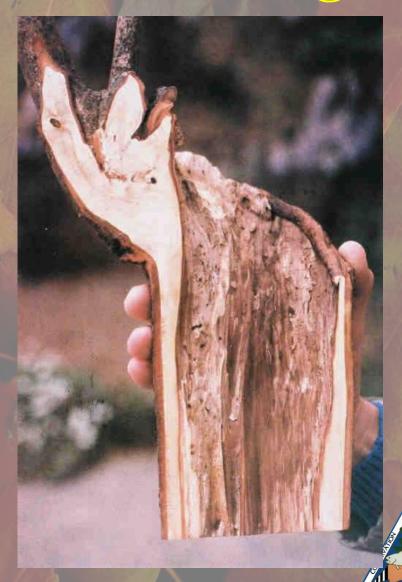
Note the compartment lines around the broken branch







- Water sprouts from old topping wound
 - Note poorly attached branches
 - Note rot from stub inside compartment lines

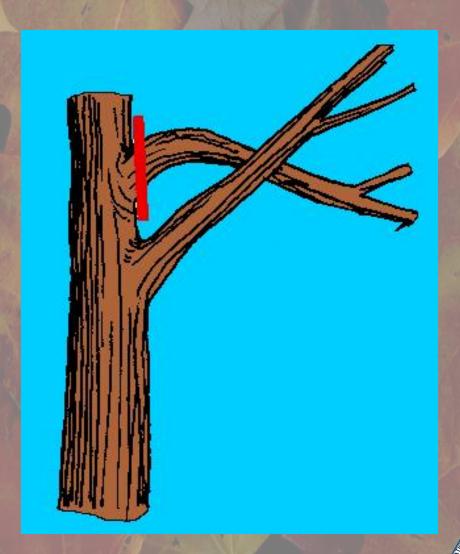


- Safety
 - People
 - Property
 - House
 - Car
 - Electric System
 - other

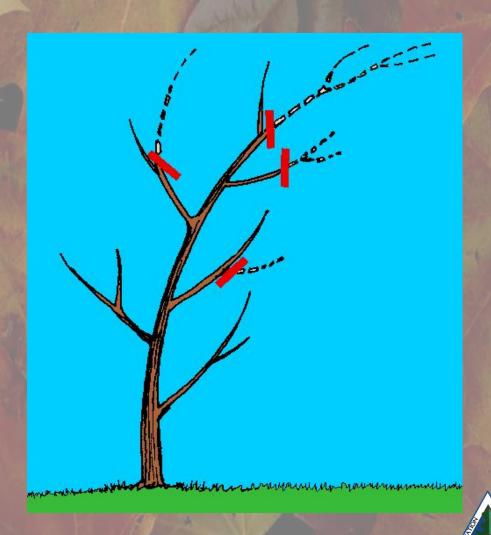




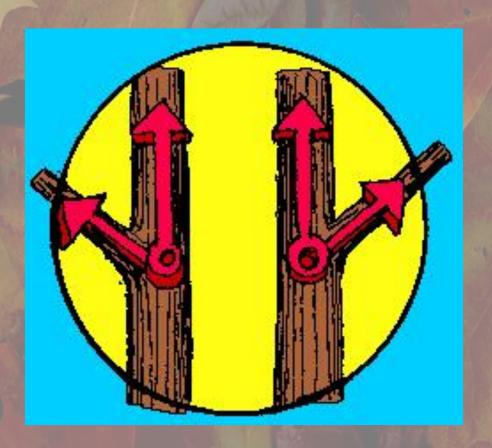
- Tree Health and Strength
 - Rubbing branches
 - Water sprouts
 - Suckers
 - Disease
 - Broken branches



- Tree Form
 - Upright shape
 - One central leader
 - Branch spacing



- Tree Strength
 - Branch angles
 - Too narrow
 - ideal





Tree Branch Attachment





Tree Branch Attachment





Tools

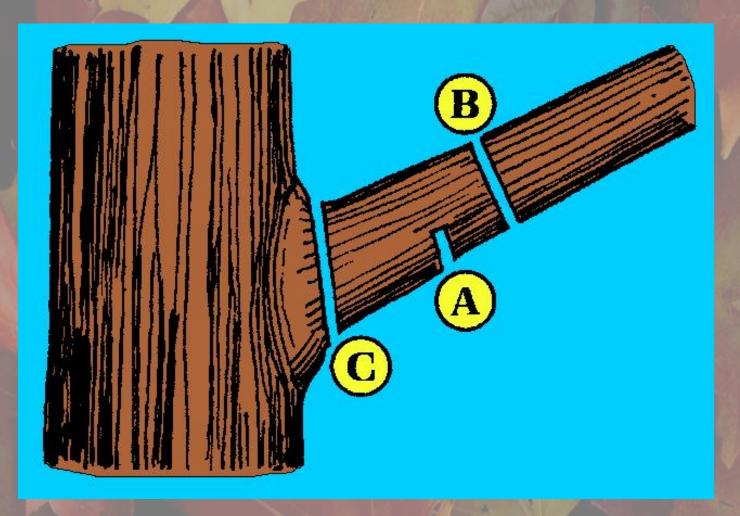




Tools

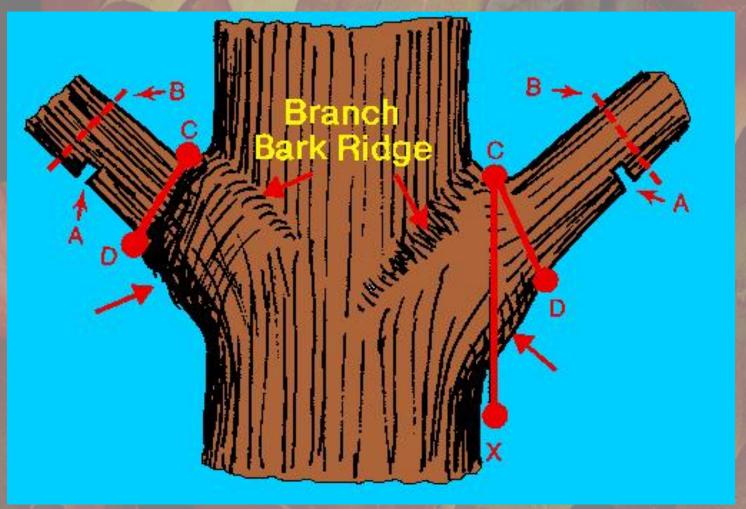






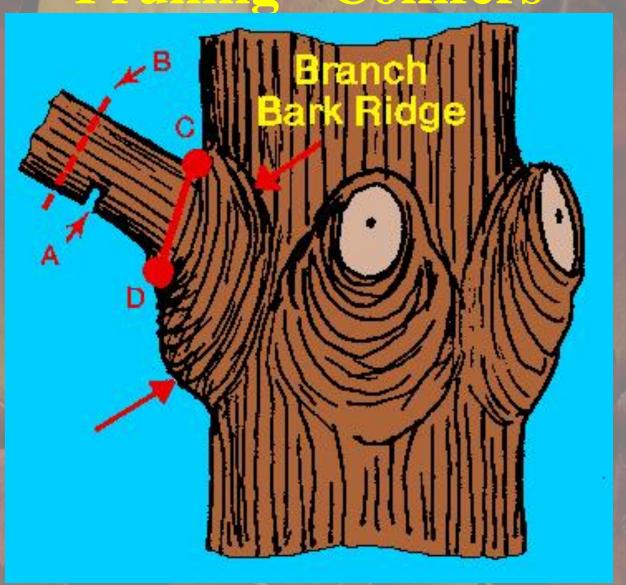


Pruning - Hardwood

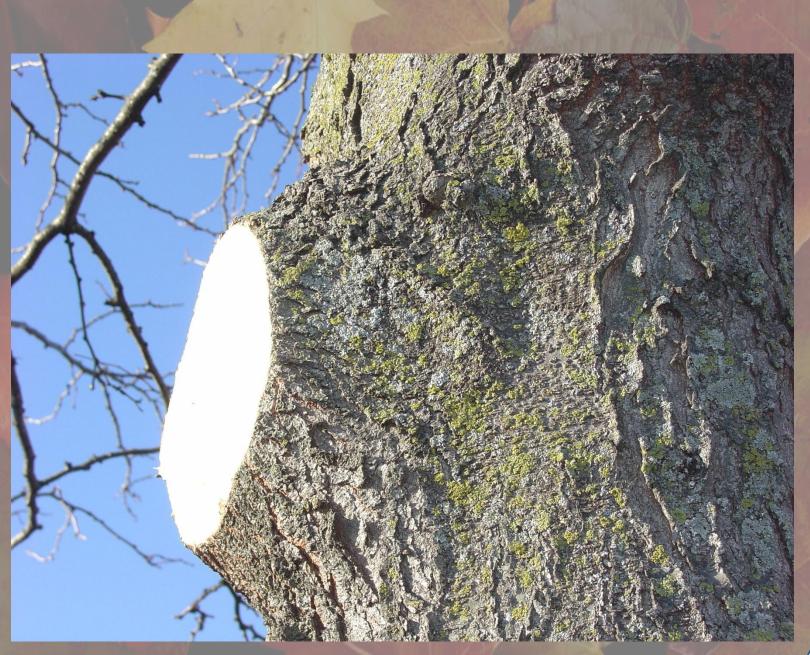




Pruning - Conifers

















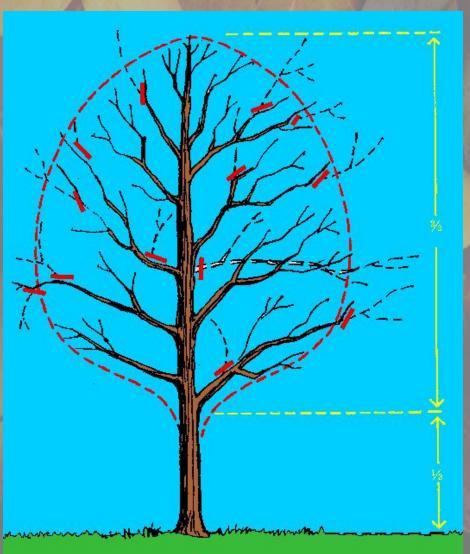






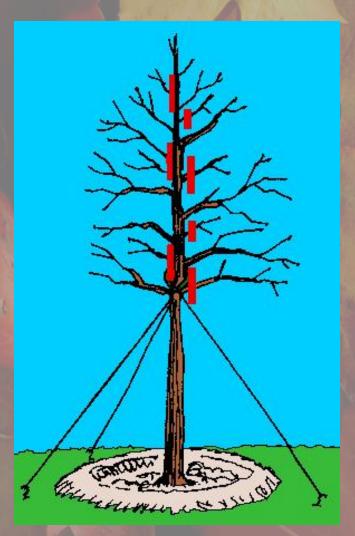


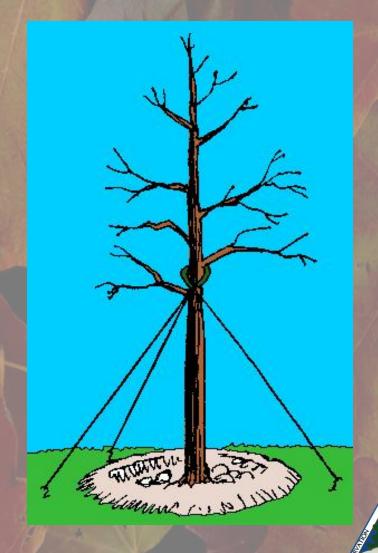










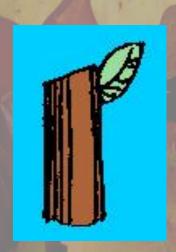


- Pruning paints are **NOT** recommended
 - Paints only provide cosmetic relief
 - Wound will turn gray to black or dark brown over time (usually several months)
 - Some paints actually hurt the tree preventing it from growing over the wound
 - Most paints dry and crack, then hold moisture underneath providing good locations for pathogens to start and maintain infections



Pruning to bud

Too Close



Too Long



Too Slanted



Correct







Toppping



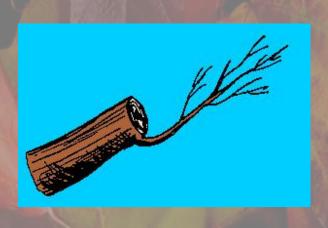


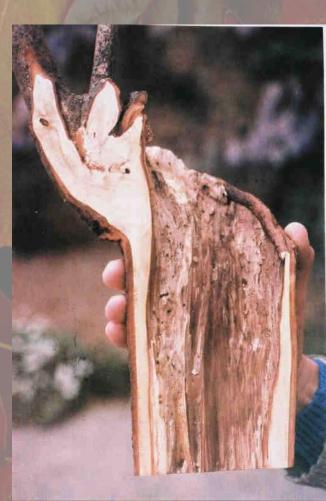
Topping





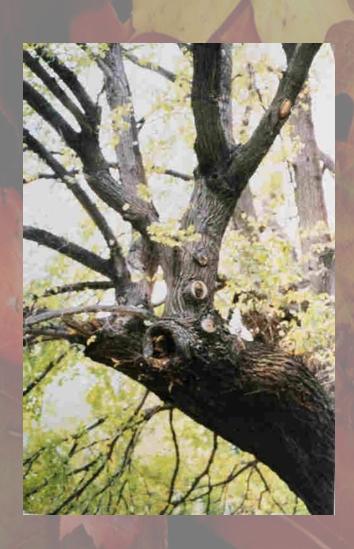
Topping

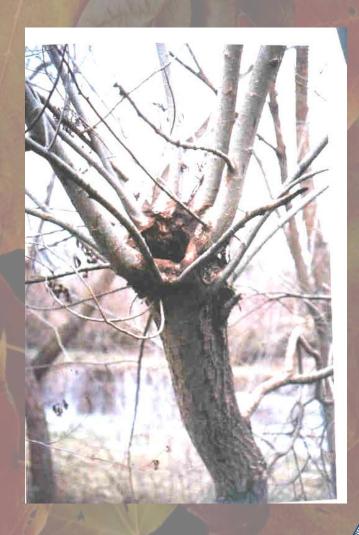




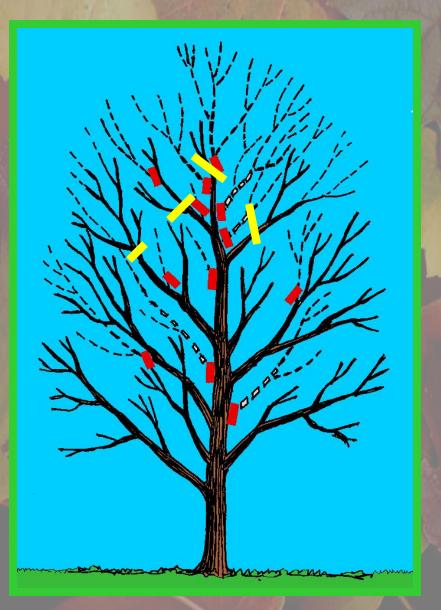


Topping Cuts





Reduce Size

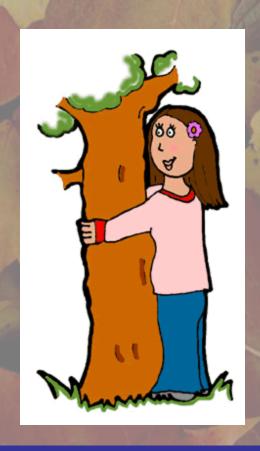








Happy Tree Everything!!!



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